

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 07-081803

(43)Date of publication of application : 07.03.1995

(51)Int.Cl.

G01B 31/02

B01F 9/12

(21)Application number : 05-211662

(71)Applicant : NEC CORP

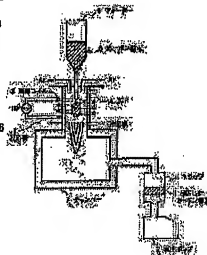
(22)Date of filing : 26.08.1993

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(54) PRODUCTION OF FULLERENE AND CARBON NANOTUBE

(57)Abstract:

PURPOSE: To synthesize fullerene and carbon nanotubes with good mass productivity.

CONSTITUTION: This method for synthesizing fullerene and carbon nanotubes comprises making Ar gas flow through the interior of a reactional tube 1 made of quartz glass, making a high-frequency electric current flow through an induction coil 3 wound around the periphery thereof under ≥ 100 Torr pressure, producing a thermal plasma 4, feeding powder 6 of carbon into the thermal plasma 4, evaporating and recombining the powder. Since the thermal plasma 4 produced by the high-frequency induction has a wide plasma region at a high temperature, a large amount of the carbon powder 6 can instantaneously be evaporated to synthesize large amounts of the fullerene and carbon nanotubes in a short time.

LEGAL STATUS

[Date of request for examination]

18.03.1994

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

2548511

[Date of registration]

08.08.1996

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

08.08.2001